RRRRR	RRRRRRR RRRRRRR RRRRRRR	UUU UUU UUU	UUU UUU	NNN NNN NNN		NNN NNN NNN	00000	00000 00000	FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	FFFFFFFFFFFFFFFFFFF	
RRR	RRR	UUU	UUU	NNN		NNN	000	000	FFF	FFF	
RRR	RRR	UUU	UUU	NNN		NNN	000	000	FFF	FFF	
RRR	RRR	ŬŬŬ	ŬŬŬ	NNN		NNN	000	000	FFF	FFF	
RRR	RRR	ŬŬŬ	ŬŬŬ	NNNN		NNN	000	000	FFF	FFF	
RRR	RRR	UUU	UUU	NNNN		NNN	000	000	FFF	FFF	
RRR	RRR	UUU	UUU	NNNN		NNN	000	000	FFF	FFF	
	RRRRRRR	UUU	UUU	NNN	NNN	NNN	000	000	FFFFFFFFFF	FFFFFFFFFF	
	RRRRRRR	UUU	UUU	NNN		NNN	000	000	FFFFFFFFFF	FFFFFFFFFF	
	RRRRRRR	UUU	UUU	NNN		NNN	000	000	FFFFFFFFFF	FFFFFFFFFF	
RRR	RRR	UUU	UUU	NNN		INNN	000	000	FFF	FFF	
RRR	RRR	UUU	UUU	NNN		INNN	000	000	FFF	FFF	
RRR	RRR	UUU	UUU	NNN		INNN	000	000	FFF	FFF	
RRR	RRR	UUU	UUU	NNN		NNN	000	000	FFF	FFF	
RRR	RRR	UUU	UUU	NNN		NNN	000	000	FFF	FFF	
RRR	RRR	UUU	UUU	NNN		NNN	000	000	FFF	FFF	
RRR	RRR	UUUUUUUU		NNN		NNN		00000	FFF	FFF	
RRR	RRR	UUUUUUUU		NNN		NNH		00000	FFF	FFF	
RRR	RRR	UUUUUUUU	UUUUUUU	NNN		NNN	00000	00000	FFF	FFF	

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GGGGGGGG GG GG GG GG GG GG GG GG GG GG	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	::
RRRRRRRR RR RR RR RR RR RR RR RR RR RRRR		QQQQQQ QQQQQQQ QQQQQQQ QQQQQQQQ QQQQQQQ	

GSL

!

Definitions pertaining to the General Control Area (GCA) IDENT 026 GCA.REQ

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FACILITY:

DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:

Definitions for the GCA (Global Control Area). Initialized by

DOOPTS from command-line information.

ENVIRONMENT:

Transportable BLISS

AUTHOR:

Rich Friday

CREATION DATE: 1978

MODIFIED BY:

026 REM00026 16-May-1983 Ray Marshall

Added support for outputting output lines numbers by adding another macro: GCA_CMD_OSQ

025 REM00025 Ray Marshall 16-November-1983

Added macros so that Ken's SAVRES module can load cells with

them instead of using numeric offsets. They have the string "_f_" within them.

024 KFA00024 Ken Alden 10-0ct-1983

Put gca_cmd_pages in the right place.

023 KFA00023 06-0ct-1983 Ken Alden

Added gca_cmd_pages to signal the /pages qualifier.

```
16-SEP-1984 16:54:45.39 Page 2
GCA.REQ:1
             022
                           KFA00022
                                                      Ken Alden
                                                                                 27-Jul-1983
                           Added gca_flag_cmd to SAVE list.
             021
                           KFA00021
                                                      Ken Alden
                                                                                 15-Jul-1983
                           Added gca_do_cont_already, gca_do_index_already.
             020
                           KFA00020
                                                      Ken Alden
                                                                                 27-Jun-1983
                           Added gca_cref_errent to the top eight bits of black_box.
             019
                           KFA00019 Ken Alden 13-Jun-1983
Made use of GCA[45] for flaging /down line skipping. Used in
                           KFA00019
                              TOPPAG and USKIPL.
             018
                           KAD00018
                                                      Keith Dawson
                                                                                12-May-1983
                           Use 16 bits each for page, index, contents, cref counts.
             017
                           KAD00017
                                                                                 21-Mar-1983
                                                      Keith Dawson
                           Add bits for LN01 output options.
             016
                           KFA00016
                                                      Ken Alden
                                                                                 16-Mar-1983
                           Save/restore now permitted in DSR.
             015
                           KAD00015
                                                      Keith Dawson
                                                                                 07-Mar-1983
                           Global edit of all modules. Updated module names, idents,
                           copyright dates. Changed require files to BLISS library.
MACRO
                                        = GCAL 00 ]%,
                                                                    !A CH$PTR to the first character of the !current command (usually it's a '.')
      gca_com_start
                                       = .GCA[ 01 ]%,

= GCA[ 01 ]%,

= .GCA[ 02 ]%,

= GCA[ 02 ]%,

= .GCA[ 03 ]%,

= .GCA[ 03 ]%,

= .GCA[ 04 ]%,

= .GCA[ 04 ]%,
      gca_autopara
gca_f_autopara
                                                                    !(SAVEALL)True if user said .AUTOPARAGRAPH
      gca_autosubt
gca_f_autosubt
                                                                    !(SAVEALL)True if user said .AUTOSUBTITLE
      gca_autotabl
gca_f_autotabl
                                                                   !(SAVEALL)True if user said .AUTOTABLE
      gca_autojust
gca_f_autojust
                                                                   !(SAVEALL)True if user said .AUTOJUSTIFY
                                       = (GCA[05]) <BAR _>%, !GCA BARS ENAB & GCA BARS ON.
= (GCA[06]) <BAR _>%, !Controlled by .ENABCE/.DISABLE BAR.
= (GCA[07]) <BAR _>%, !Controlled by .BEGIN/.END BAR.
= (GCA[08]) <BAR _>%, !True if change bars ever enabled.
= GCA[ 09 ]%, ... !If user said /DEBUG, the character to be used as draft flag (from .VARIABLE command).
= GCA[ 10 ]%, !True if document contains chapters/appendices
= GCA[ 11 ]%, !ToPS-20 terminal wrap width (DSRPLUS only).
= GCA[ 12 ]%, !True if .NO SPACE is pending.
= GCA[ 13 ]%, !Routing code for error messages
= GCA[ 14 ]%, !If a counted literal, the # of lines.
= GCA[ 15 ]%, !True if a .NUMBER CHAPTER or .NUMBER APPENDIX command has already set up NPAGEN.
= GCA[ 16 ]%, !TOPS-20 terminal escape characteristics (DSRPLUS only)
      gca_bars_enab
      gca_bars_on
gca_ever_bars
gca_draft_f
      gca_chapt
      gca_twidth_36
      gca_concat
      gca_cmd_msg
gca_lit_count
gca_pchax
      gca_tescape_36
      gca_cmd_nbits
gca_lit_flag
gca_cmd_lstbts
                                        = GCA[ 17 ]%.
= GCA[ 18 ]%.
= GCA[ 19 ]%.
                                                                    Ultimate controls for miscellaneous functions.
                                                                    status of .GCA_FLAG_CMD during literal processing.
                                                                     Ultimate controls for misc functions.
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16-SEP-1984 16:54:45.39 Page 4
GCA.REQ: 1
                                                              = (GCA[52])<2,1>%, !True if /DEC=FLIP.
= (GCA[52])<3,1>%, !True if /OUTPUT was explicitly specified.
= (GCA[52])<4,4>%, !Type of output device (see OPDEV.REQ).
          gca_flip
          gca_s_output
gca_op_dev
          gca_ln01_ital_under = (GCA[52])<8,1>%, ! For LN01 output: set=italics, clear=underlining.
gca_ln01_port_land = (GCA[52])<9,1>%, ! For LN01 output: set=portrait, clear=landscape.
gca_cmd_pages = (GCA[52])<10,1>%,!True if /PAGES.
         gca_diag1
gca_diag2
                                                                                                        !First 16 diagnostic control flags. !Second 16 diagnostic control flags.
                                                              = GCA[ 53 ]%.
= GCA[ 54 ]%.
                                                                                                        !True if user gave any .XP/.YP commands since last .DX or .PX. !Used for OUTHDR in determining if the header has been processed and output.
          gca_xp_ever
gca_line_pend
                                                              = GCA[ 55 ]%.
       gca_black_box = GCA[ 57 ]%, !True if user said /AUTOMATIC.
gca_cref_errcnt = (GCA[57])<8,8>%, !Number of unresolved cross references.
gca_cross_reference = (GCA[58])<0,1>%, !True if user said /CROSS_REFERENCE (it's the default).
gca_expand_cref = (GCA[58])<1,1>%, !True if cross references should be expanded.
gca_old_brn_exists = (GCA[58])<2,1>%, !True if an old .BRN file exists and was read.
gca_cref_changed = (GCA[58])<3,1>%, !True if any cross-reference changed in the course of this run.
gca_do_cont_already = (GCA[58])<4,1>%, !True if a do contents has been processed in this run.
gca_do_index_already = (GCA[58])<5,1>%, !True if a do index has been processed in this run.
gca_rerun_count = (GCA[59])<0,8>%, !Number of times DSRPLUS must be rerun for complete and correct /AUTOMATIC processing.
gca_pass_count = (GCA[59])<8,8>%; !Number of the current /AUTOMATIC rerun pass.
LITERAL
                                                              ! Number of cells in GCA. As of version VO4-000 there are ! 5 free cells.
                                    = 64:
         gca_size
!The following literals define where errors are to be reported
!NOTE: The bit representation of these literals is used by DOOPTS.
LITERAL
        report_err_none
report_err_file
report_err_std
                                                             = 0,
= 1,
= 2,
= 3;
                                                                                    !Report no error messages
                                                                                    Report in output file only.
                                                                                    !Report on standard error log only. !Report errors in both output file and on standard error device.
          report_err_both
Definition of diagnostic control flags. The names may be later changed,
but for now, these names will at least provide easy access for initial use.
       diag1 0 = (GCA DIAG1) <0.1>%,
diag1 1 = (GCA DIAG1) <1.1>%,
diag1 2 = (GCA DIAG1) <2.1>%,
diag1 3 = (GCA DIAG1) <2.1>%,
diag1 5 = (GCA DIAG1) <3.1>%,
diag1 6 = (GCA DIAG1) <4.1>%,
diag1 6 = (GCA DIAG1) <6.1>%,
diag1 7 = (GCA DIAG1) <6.1>%,
diag1 8 = (GCA DIAG1) <7.1>%,
diag1 9 = (GCA DIAG1) <8.1>%,
diag1 9 = (GCA DIAG1) <10.1>%,
diag1 10 = (GCA DIAG1) <10.1>%,
diag1 11 = (GCA DIAG1) <10.1>%,
diag1 12 = (GCA DIAG1) <11.1>%,
diag1 13 = (GCA DIAG1) <12.1>%,
diag1 14 = (GCA DIAG1) <13.1>%,
diag1 15 = (GCA DIAG1) <15.1>%,
MACRO
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16-SEP-1984 16:54:45.39 Page 5
GCA.REQ:1
MACRO
         RO
diag2_0 = (GCA_DIAG2)<0,1>%,
diag2_1 = (GCA_DIAG2)<1,1>%,
diag2_2 = (GCA_DIAG2)<2,1>%,
diag2_3 = (GCA_DIAG2)<3,1>%,
diag2_4 = (GCA_DIAG2)<4,1>%,
diag2_5 = (GCA_DIAG2)<5,1>%,
diag2_6 = (GCA_DIAG2)<5,1>%,
diag2_6 = (GCA_DIAG2)<6,1>%,
diag2_7 = (GCA_DIAG2)<6,1>%,
diag2_8 = (GCA_DIAG2)<7,1>%,
diag2_9 = (GCA_DIAG2)<8,1>%,
diag2_10 = (GCA_DIAG2)<10,1>%,
diag2_11 = (GCA_DIAG2)<11,1>%,
diag2_12 = (GCA_DIAG2)<11,1>%,
diag2_13 = (GCA_DIAG2)<13,1>%,
diag2_14 = (GCA_DIAG2)<13,1>%,
diag2_15 = (GCA_DIAG2)<15,1>%,
MACRO
         MACRO
           gca_definition =
                     VECTOR [gca_size]
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